

10/587591

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 36969US1	SERIAL NO. TBD
INFORMATION DISCLOSURE CITATION BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT: <b>J. William Doane et al.</b>	
		FILING DATE: <b>Herewith</b>	GROUP ART UNIT: <b>TBD</b>

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U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	4,510,188	4/1985	Ruggeri			
	B	4,642,250	2/1987	Spector			
	C	4,747,413	5/1988	Bloch			
	D	5,061,553	10/1991	Olsen, Jr.			
	E	5,161,479	11/1992	Mahr			
	F	5,360,503	11/1994	Coffy			
	G	5,376,699	12/1994	Sage			
	H	5,453,863	9/1995	West et al.			
	I	5,981,408	11/1999	Nakagawa et al.			
	J	6,072,619	6/2000	Kiryushev et al.			
	K	6,096,666	8/2000	Jachimowicz et al.			
	L	6,270,783	8/2001	Slavtcheff et al.			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
	M	92/11311	7/1992	WO			
	N	2005/072447	8/2005	WO			
	P	2005/081779	9/2005	WO			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	Q	<i>Reflective display with photoconductive layer and a bistable reflective cholesteric mixture</i> , Hidefumi Yoshida et al., Journal of the SID 5/3, 1997, pp. 269-274.
	R	<i>Photostable tilted-perpendicular alignment of liquid crystals for light valves</i> , Anna Lackner et al., Proceedings of the SID, Vol. 31/4, 1990, pp. 321-326.

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U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	6,277,439	8/2001	Painter			
	B	6,603,259	8/2003	Kiryushev et al.			
	C	6,608,438	8/2003	Topelberg et al.			
	D	6,624,565	9/2003	Topelberg			
	E	6,654,080	11/2003	Khan et al.			
	F	6,697,191	2/2004	Kiryushev et al.			
	G	6,727,197	4/2004	Wilson et al.			
	H	6,788,362	9/2004	Stephenson et al.			
	I	2005/0007336	1/2005	Albert et al.			
	J	2003/0202136	10/2003	Stephenson et al.			
	K	2004/0032545	2/2004	Stephenson et al.			
	L	2003/0016329	1/2003	Smith et al.			

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation
	M						
	N						
	P						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)	
Q	Transparent phase images in photoactivated liquid crystals, J.S. Margerum et al., Applied Physics Letter, Volume 19, Number 7, October 1, 1971, pp. 216-218.
R	16.3: Development of a flexible electronic display using photographic technology, Stanley W. Stephenson et al., SID 04 Digest, pp. 774-777.
Examiner:	/Nitin Patel/
Date Considered	04/28/2010
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U.S. PATENT DOCUMENTS						
Examiner Initial		Document No.	Date	Name	Class	Filing Date
	A	6,359,673	3/2002	Stephenson		
	B	6,423,368	7/2002	Stephenson et al.		
	C	6,433,849	8/2002	Lowe		
	D	6,556,262	4/2003	Stephenson et al.		
	E	6,585,849	7/2003	Smith et al.		
	F	6,618,114	9/2003	Freeman		
	G	3,680,950	8/1972	Haas et al.		
	H	5,437,811	8/1995	Doane et al.		
	I	5,200,845	4/1993	Crooker et al.		
	J	5,644,330	7/1997	Catchpole et al.		
	K	5,748,277	5/1998	Huang et al.		
	L	5,668,614	9/1997	Chien et al.		

FOREIGN PATENT DOCUMENTS						
		Document No.	Date	Country	Class	Translation
	M					
	N					
	P					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)	
Q	<del>10.1: Invited paper: What is electronic paper? The expectations, Makoto Omedani, SID-04 Digest, pp. 138-131.</del>
R	Effect of woven fabric anisotropy on drape behaviour, V. Sidabraitė et al., ISSN 1392-1320, Materials Science, Vol. 9, No. 1, 2003, pp. 111-115.
Examiner: /Nitin Patel/	Date Considered 04/28/2010
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U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	5,493,430	2/1996	Lu et al.			
	B	6,359,673	3/2002	Stephenson			
	C	6,377,321	4/2002	Khan et al.			
	D	6,483,563	11/2002	Khan et al.			
	E	6,532,052	3/2003	Khan et al.			
	F	5,847,798	12/1998	Yang et al.			
	G	6,320,563	11/2001	Yang et al.			
	H	6,154,190	11/2000	Yang et al.			
	I	6,133,895	10/2000	Huang			
	J	6,034,752	3/2000	Khan et al.			
	K	2002/0030786	4/2002	Stephenson			
	L	2003/0085380	5/2003	Schumacher et al.			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
	M						
	N						
	P						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	<i>The characterization of the static and dynamic drape of fabrics</i> , G.K. Stylios et al., J. Text. Inst., 1997, 88 Part 1, No. 4, pp. 465-475.		
R	<i>Modelling the fused panel for a numerical simulation of drape</i> , Simona Jevsnik et al., Fibers & Textiles in Eastern Europe, January/March 2004, Vol. 12, No. 1, pages 47-52.		
Examiner:	/Nitin Patel/	Date Considered	04/28/2010

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U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	2003/0063245	4/2003	Bowley et al.			
	B	2005/0083284	4/2005	Huang et al.			
	C	2003/0071791	4/2003	Hanson et al.			
	D	5,691,795	11/1997	Doane et al.			
	E	2003/0155151	8/2003	Hermanns et al.			
	F	6,468,638	10/2002	Jacobsen et al.			
	G	6,316,278	11/2001	Jacobsen et al.			
	H	5,007,872	4/1991	Tang			
	I	4,362,903	12/1982	Eichelberger et al.			
	J	4,896,946	1/1990	Suzuki et al.			
	K	5,889,572	3/1999	Takahashi et al.			
	L	4,948,232	8/1990	Lange			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
	M						
	N						
	P						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	<i>Mechanics of elastic performance of textile materials</i> , Chauncey Chu et al., Textile Research Journal, August 1950, pp. 539-548.
R	<i>The dependence of fabric drape on bending and shear stiffness</i> , G.E. Cusick, J. Textile Institute 36, 11, 1965, pp. T597-T-607.

Examiner:	/Nitin Patel/	Date Considered	04/28/2010
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U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	5,751,257	5/1998	Sutherland			
	B	6,710,760	3/2004	Johnson et al.			
	C	6,253,190	6/2001	Sutherland			
	D	6,269,342	7/2001	Brick et al.			
	E	6,657,620	12/2003	Oishi et al.			
	F	5,734,155	3/1998	Rostoker			
	G	2003/0169221	9/2003	Stephenson et al.			
	H	2002/0186182	12/2002	Stephenson et al.			
	I	2003/0222139	12/2003	Stephenson et al.			
	J	2004/0080477	4/2004	Capurso et al.			
	K	2003/0160912	8/2003	Stephenson			
	L	6,307,605	10/2001	Bailey			

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation
	M						
	N						
	P						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)	
Q	Liquid crystal dispersions, Paul S. Drzaic, World Scientific, Series on Liquid Crystals, Vol. 1, pp. xi-xv, 1995.
R	6.3: Plastic VGA reflective cholesteric LCDs with dynamic drive, G.M. Podojil et al., SID proceedings, 1998, pp. 51-54.
Examiner: /Nitin Patel/	Date Considered 04/28/2010
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U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	6,902,454	6/2005	Petruchik			
	B	6,655,788	12/2003	Freeman			
	C	6,224,964	5/2001	Kawai et al.			
	D	6,268,839	7/2001	Yang et al.			
	E	2002/0030776	3/2002	Khan et al.			
	F	6,452,590	9/2002	Awamoto et al.			
	G	6,628,256	9/2003	Nishimura			
	H	2001/0015712	8/2001	Hashimoto			
	I	2003/0184569	10/2003	Koga et al.			
	J	5,815,136	9/1998	Ikeda et al.			
	K	6,278,429	8/2001	Ruth et al.			
	L	5,530,457	6/1996	Helgeson			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation
	M						
	N						
	P						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	13.1: <i>Invited Paper: Reflective color display using cholesteric liquid crystals</i> , K. Hashimoto et al., SID 98 Digest, pp. 897-900.
R	<i>Black and white photo-addressable electronic paper using encapsulated cholesteric liquid crystal and organic photoconductor</i> , T. Kakinuma et al., IDW 2002, pp. 1345-1348.

Examiner:	/Nitin Patel/	Date Considered	04/28/2010
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U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	6,268,841	7/2001	Cairns et al.			
	B	2003/0011549	1/2003	Murahashi et al.			
	C	5,172,108	12/1992	Wakabayashi et al.			
	D	2003/0031845	2/2003	Umeya et al.			
	E	6,864,435	3/2005	Hermanns et al.			
	F	5,996,897	12/1999	Prancz			
	G	2005/0162606	12/2004	Doane et al.			
	H	5,625,477	4/1997	Wu et al.			
	I	2005/0001797	2/2004	Miller, IV et al.			
	J	5,636,044	6/1997	Yuan et al.			
	K	7,009,666	3/2006	Khan et al.			
	L	6,819,310	11/2004	Huang et al.			

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation
	M						
	N						
	P						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)	
Q	Characterization of "Peas in a Pod", a novel idea for electronic paper, S. Maeda et al., IDW 2002, pp. 1353-1356.
R	Holographic polymer-dispersed liquid crystals (H-PDLCs), T.J. Bunning et al., Annu. Rev. Mater. Sci 2000, 30:83-115, pp. 83-115.
Examiner:	/Nitin Patel/
Date Considered	04/28/2010
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U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	6,850,217	2/2005	Huang et al.			
	B						
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FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation
	J						
	K						
	L						

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)	
M	<i>Reflective multicolor display using cholesteric liquid crystals</i> , M. Okada et al., Proc, SID 97 Digest, pp. 1019-1022.
N	<i>Multiple color high resolution reflective cholesteric liquid crystal display</i> , D. Davis et al., Proc IDRC (242) 1997.
P	<i>Full color (4096 Colors) reflective cholesteric crystal display</i> , X. Huang et al., Proceedings of Asia Display 98, pp. 883-886 (1998).
Examiner: /Nitin Patel/	Date Considered 04/28/2010
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	J						
	K						
	L						

OTHER REFERENCES <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>	
M	Jing-Jou Tang et al., <i>A 30-V Row/Column Driver for PSCT LCD Using High-Voltage BiMOS Process</i> , Online Article, dated 1999.
N	<a href="http://www.us.semiconductors.philips.com/pip/PCF8578.html">http://www.us.semiconductors.philips.com/pip/PCF8578.html</a> , LCD/row/column driver for dot matrix graphic displays, printed July 8, 2003, pp. 1-3.
<del>P</del>	<del>40CH Segment/Driver for Dot Matrix LCD, KS0065D, Samsung Electronics, 12 pages.</del>
Examiner: /Nitin Patel/	Date Considered 04/28/2010
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## U.S. PATENT DOCUMENTS

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		Document No.	Date	Country	Class	Subclass	Translation
	J						
	K						
	L						

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

M	Doane, J. William and Khan, Asad; <u>Cholesteric Liquid Crystals for Flexible Displays</u> , in <u>Flexible Flat Panel Displays</u> , Ed. G. Crawford) John Wiley & Sons, England, Chapter 17 (2005) pgs. 331-354
N	Doane, J. William, "Polymer Dispersed Liquid Crystal Displays", in <u>Liquid Crystals: Applications &amp; Uses</u> , Ed. Birendra Bahadur (World Scientific Pub. 1990), Chapter 14, pgs 361-395
<del>P</del>	<del>Luo, F.C., "Active Matrix LC Displays", in <u>Liquid Crystals: Applications &amp; Uses</u>, (ed. B. Bahadur), World Scientific, Singapore, Chapter 15, pgs. 397-436.</del>
Q	

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